



# ***STIC Search Report***

***EIC 3700***

## **STIC Database Tracking Number**

**TO: Jonathan M Foreman**

**Location: RND 7a44**

**Art Unit: 3736**

**Monday, June 19, 2006**

**Case Serial Number: 09/145255**

**From: Terry Solomon**

**Location: EIC 3700**

**RND 8b31**

**Phone: 272-4240**

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## **Search Notes**

No current or past litigation found involving US pat. 5551445.

Sources:

Lexis/Nexis

Questel-Orbit

Courtlink

Patent Search - Number: 5,551,445

No cases found.

**Return to Search**

(Charges for search still apply)

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147613 (08) 5551445 September 3, 1996

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5551445

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September 3, 1996

Apparatus and method for movement coordination analysis

**REISSUE:** September 1, 1998 - Reissue Application filed Ex. Gp.: 3733; Re. S.N. 09/145,168 (O.G. October 20, 1998)

December 9, 2002 - Reissue Application filed Ex. Gp.: 3764; Re. S.N. 10/314,659 (O.G. March 4, 2003)

**APPL-NO:** 147613 (08)

**FILED-DATE:** November 5, 1993

**GRANTED-DATE:** September 3, 1996

**ASSIGNEE-PRE-ISSUE:** January 10, 1994 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., NEUROCOM INTERNATIONAL, INC. 9570 S.E. LAWNFIELD ROAD CLACKAMAS, OR 97015, Reel and Frame Number: 006827/0195

**ASSIGNEE-AT-ISSUE:** NeuroCom International, Inc., Clackamas, Oregon, United States (US), United States company or corporation (02)

**LEGAL-REP:** Bromberg & Sunstein

Selected file: PLUSPAT  
PLUSPAT - (c) Questel-Orbit, All Rights Reserved.  
Comprehensive Worldwide Patents database

\*\* SS 1: Results 1  
PRT SS 1 MAX 1 LEGALALL

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Patent Number :

US5551445 A 19960903 [US5551445]

Title :

(A) Apparatus and method for movement coordination analysis

Patent Assignee :

(A) NEUROCOM INT INC (US)

Patent Assignee :

NeuroCom International, Inc., Clackamas OR [US]

Inventor(s) :

(A) NASHNER LEWIS M (US)

Application Nbr :

US14761393 19931105 [1993US-0147613]

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C.I.P. of US873125 19860611 [1986US-0873125]

Cont. of US408184 19820816 [1982US-0408184]

Division of: US5269318

Division of: US5052406

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Priority Details :

US729487 19870127 [1987US-0007294]

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US40818482 19820816 [1982US-0408184]

US74904591 19910822 [1991US-0749045]

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Intl Patent Class :

(A) A61B-005/10

IPC Advanced All :

A61B-005/0488 [2006-01 A - I R M EP]; A61B-005/103 [2006-01 A - I R M EP]

IPC Core All :

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US Patent Class :

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US2670729; US3859736; US3890722; US3906931; US4122840; US4164080;  
US4549555; US4738269; JP0121025; SU695656; SU712075; SU820803; SU904663;  
WO9006082

"A New Instrument For Recording of the Evoked Compound Electro Myogram",  
Lee et al., Anesthesia and Analgesia, Current Researches, Apr. 1977.

"Electro Myogram", Electronics Today International, Mar. 1980.

Cardo et al., "Properties of Postural Adjustments Associated with Rapid  
Arm Movements", J. Neurophysiology, vol. 47, No. 2, Feb. 1982, pp.  
287-302.

Dietz et al. "Spinal Coordination of Bilateral Leg Muscle Activity  
During Balancing", Exp. Brain Res. vol. 47, 1982, pp. 172-176.

Horstmann et al., "Speziallaufband für Stand- und Ganguntersuchungen in Forschung und Klinik", Biomedizinische Technik, vol. 32, No. 10, Oct. 1987, Berlin, Germany, pp. 250-254.

Lofstedt, L., "An Apparatus for Generating Controlled Ramp Movements During Studies of Muscle Spindle Afferent Activity and Muscle Tone in Man", IEEE Transactions on Biomedical Engineering, vol. BME-25, No. 4, Jul. 1978, IEEE, New York, pp. 374-377.

Koles et al., "The Relationship Between Body Sway and Foot Pressure in Normal Man", J. Med. Engr., vol. 4, No. 6, Nov. 1980.

Nashner, L. M., "Analysis of Stance Posture in Humans", Chap. 10 of Handbook of Behavioral Neurobiology, vol. 5, Plenum Publishing, N.Y., N.Y., 1981, pp. 527-565.

Nashner, L. M., "Fixed Patterns of Rapid Postural Responses Among Leg Muscles During Stance", Exp. Brain Res., vol. 30, 1977, pp. 13-24.

Nashner, L. M., Sensory Feedback in Human Posture Control, MIT, MVT-70-3, Jun. 1970.

Nashner et al., "Influence of Head Position and Proprioceptive Cues on Short Latency Postural Reflexes Evoked by Galvanic Stimulation of the Human Labyrinth", Brain Research, vol. 67, 1974, pp. 255-268.

Nashner et al., "Organization of Rapid Responses to Postural and Locomotor-Like Perturbations of Standing Man", Exp. Brain Research, vol. 36, 1979, pp. 463-476.

Nashner et al. "Stance Posture Control in Select Groups with Cerebral Palsy: Deficits in Sensory Organization and Muscular Coordination", Exp. Brain Res., vol. 49, 1983, pp. 393-409.

Nashner et al., "Visual Contribution to Rapid Motor Responses During Postural Control", Brain Research, vol. 150, 1978, pp. 403-407.

Tole et al., "A Microprocessor-Controlled Vestibular Examination Chair", IEEE Transactions on Biomedical Engineering, vol. BME-28, No. 5, May 1981, IEEE, New York, pp. 390-395.

**Publication Stage :**

(A) United States patent

**Abstract :**

Methods and devices are provided for evaluating among the limbs of a subject the distribution of impairments of the subject's ability to coordinate the muscular contractions to execute effective postural movements. The subject may be placed on two independently movable support surfaces, either of which may be fixed or sway-referenced. The subject's ability to maintain his or her equilibrium position is then monitored. In another embodiment, the subject is perturbed from a position of equilibrium. The perturbation may be caused by a displacement of the support surfaces, or by having the subject grasp a handle, which may be moved, or against which the subject may push or pull. The latency and strength of the responses of the subject's limbs are measured and compared to each other and to a normal population.

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**Action Taken :**

19940110 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: NEUROCOM INTERNATIONAL, INC. 9570 S.E. LAWNFIELD R; EFFECTIVE  
DATE: 19940104

19940110 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: NASHNER, LEWIS M.; EFFECTIVE DATE: 19940104

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EFFECTIVE DATE: 20021209

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2003-22

1 / 1 CRXX - @CLAIMS/RRX

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**Patent Assignee :**

NeuroCom International Inc

**Actions :**

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ISSUE DATE OF O.G.: 19981020  
REISSUE REQUEST NUMBER: 09/145168  
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20021209 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20030304  
REISSUE REQUEST NUMBER: 10/314659  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3764

Reissue Patent Number:

Session finished: 19 JUN 2006 Time 22:18:04  
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